

WHAT IS CLAIMED IS:

1. An internal antenna for a mobile communication terminal comprising:

5       a power feed unit for feeding power to the antenna;  
      a ground unit for grounding the antenna; and  
      a first radiation unit formed in a band shape with a designated width, having one end connected to the power feed unit and the other end connected to the ground unit, arranged  
10       along an edge of an upper surface of a dielectric support unit for supporting the antenna so as to form a loop-shaped current path, and radiating at a designated low frequency band using a current introduced through the power feed unit.

15       2. The internal antenna as set forth in claim 1,  
      wherein the power feed unit or the ground unit is arranged at an end of side surface of the dielectric support unit for supporting the antenna.

20       3. The internal antenna as set forth in claim 1,  
      wherein the dielectric support unit has an approximately hexahedral shape, and the first radiation unit is divided into a left radiation unit, an upper radiation unit, a right radiation unit and a lower radiation unit according to their  
25       positions arranged on an upper surface of the support unit.

4. The internal antenna as set forth in claim 1, further comprising a second radiation unit formed in a band shape with a designated width, connected to an inner side of the left radiation unit of the first radiation unit, arranged on an upper surface of the dielectric support unit and radiating at a designated high frequency band using current introduced through the power feed unit.

5. The internal antenna as set forth in claim 4, wherein the left, upper and right radiation units of the first radiation unit are extended such that their extended portions are arranged on a rear surface of the dielectric support unit.

6. The internal antenna as set forth in claim 4, wherein the left, upper and right radiation units of the first radiation unit are extended such that their extended portions are arranged on rear and lower surfaces of the dielectric support unit.

7. The internal antenna as set forth in claim 4, wherein the upper, right and lower radiation units of the first radiation unit are extended such that their extended portions are arranged on right side or lower surface of the

dielectric support unit.

8. The internal antenna as set forth in claim 7,

wherein the second radiation unit is extended such that  
5 its extended portion is arranged on a right side surface of  
the dielectric support unit.

9. The internal antenna as set forth in claim 1, further  
comprising a third radiation unit formed in a band shape with  
10 a designated width, connected to an outer side of the left  
radiation unit of the first radiation unit, arranged on a left  
side or lower surface of the dielectric support unit for  
supporting the antenna, and radiating at a designated high  
frequency band using current introduced through the power feed  
15 unit.

10. The internal antenna as set forth in claim 9,  
further comprising a frequency adjustment unit formed in a  
band shape with a designated width, connected to an outer side  
20 of the first radiation unit in parallel, and adjusting a  
frequency to be processed by the antenna so as to control  
impedance matching.

11. The internal antenna as set forth in claim 10,

25 wherein the frequency adjustment unit is connected to an

outer side of the lower radiation unit of the first radiation unit and arranged along a front or lower surface of the dielectric support unit.

5           12. The internal antenna as set forth in claim 11,  
          wherein the frequency adjustment unit is bent at a  
designated position of the lower surface of the dielectric  
support unit toward the right side surface of the dielectric  
support unit.

10           13. The internal antenna as set forth in claim 1,  
          wherein the mobile communication terminal is a folder-  
type terminal.